

# NATURAL ENVIRONMENT REPORT LEVEL I & II

## VICDOM UTICA PIT

**Township of Uxbridge**

**Region of Durham**

**P/N 12-2630**

**May, 2014**



**Prepared for: Vicdom Sand & Gravel Ltd.**



**Skelton Brumwell**

**& ASSOCIATES INC.**

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**NATURAL ENVIRONMENT REPORT LEVEL I & II**  
**VICDOM UTICA PIT**  
**TOWNSHIP OF UXBRIDGE**  
**REGION OF DURHAM**

P/N 12-2630

May, 2014

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***NATURAL ENVIRONMENT REPORT LEVEL I***

**1.0 INTRODUCTION**

Skelton, Brumwell & Associates Inc. (SBA) was retained by Vicdom Sand & Gravel Ltd. to prepare a Natural Environment Report (NER) in support of their application under the Aggregate Resources Act (ARA) for a Category 3-Class A Pit Above Water.

This report follows the direction provided in Ministry of Natural Resources (MNR) Aggregate Resources Policy A.R. 2.01.07, which provides requirements and guidance towards completion of the Natural Environment Report (NER).

The purpose of the NER is to identify natural heritage features and functions within the site and the adjacent lands within 120 metres to determine the potential for negative impacts from the proposed pit.

The site is located in the Oak Ridges Moraine, Greenbelt, Lake Simcoe watershed, and therefore, must conform to the policies for development in the Oak Ridges Moraine Conservation Plan (ORMCP), Greenbelt Plan, and Lake Simcoe Protection Plan (LSPP), respectively.

In order to avoid duplication of reports, the Natural Environment Report for the ARA application and the Natural Heritage Evaluation have been amalgamated into this singular report. This report will address the requirements for all studies towards a licence for the proposed pit operations.

**2.0 SITE DESCRIPTION**

The subject property, known as 3900 Lake Ridge Road, has an area of 19.2 hectares and is comprised of Part of Lot 15, Concessions 7 and 8, Part of the Road Allowance between Concessions 7 and 8, and Part of the Road Allowance Between Lots 15 and 16, Concessions 7 and 8 in the geographic Township of Uxbridge, Township of Uxbridge as shown on Figure 1 – Location.

The proposed license area will be 19.2 ha (47.4 acres) with an extraction are of 15.4 ha (38 acres). The study area for the NER includes the proposed licence area and adjacent lands of 120 metres, as required by A.R. 2.01.07, as shown on Figure 2-Study Area.

The property is currently used for agriculture purposes, being corn cropland. A residence is located on site fronting on Lakeridge Road. A former road allowance along the north boundary of the site was cleared of all vegetation in 2013.

### **3.0 PLANNING BACKGROUND**

The following provides a summary of applicable policies and background information pertaining to natural heritage features and ecological functions. A more detailed account of planning policies is provided in the Technical Background Report (SBA 2014).

#### **3.1 Provincial Policy Statement (PPS)**

The Provincial Policy Statement (PPS) (Ontario Ministry of Municipal Affairs and Housing, 2014) sets the policy foundation for regulating the development and use of land in Ontario. This report deals with Section 2.1 Natural Heritage. Within Section 2.1, development and site alteration is not permitted in:

- significant wetlands in Ecoregions 5E, 6E and 7E;
- significant coastal wetlands.

Development and site alteration shall not be permitted in:

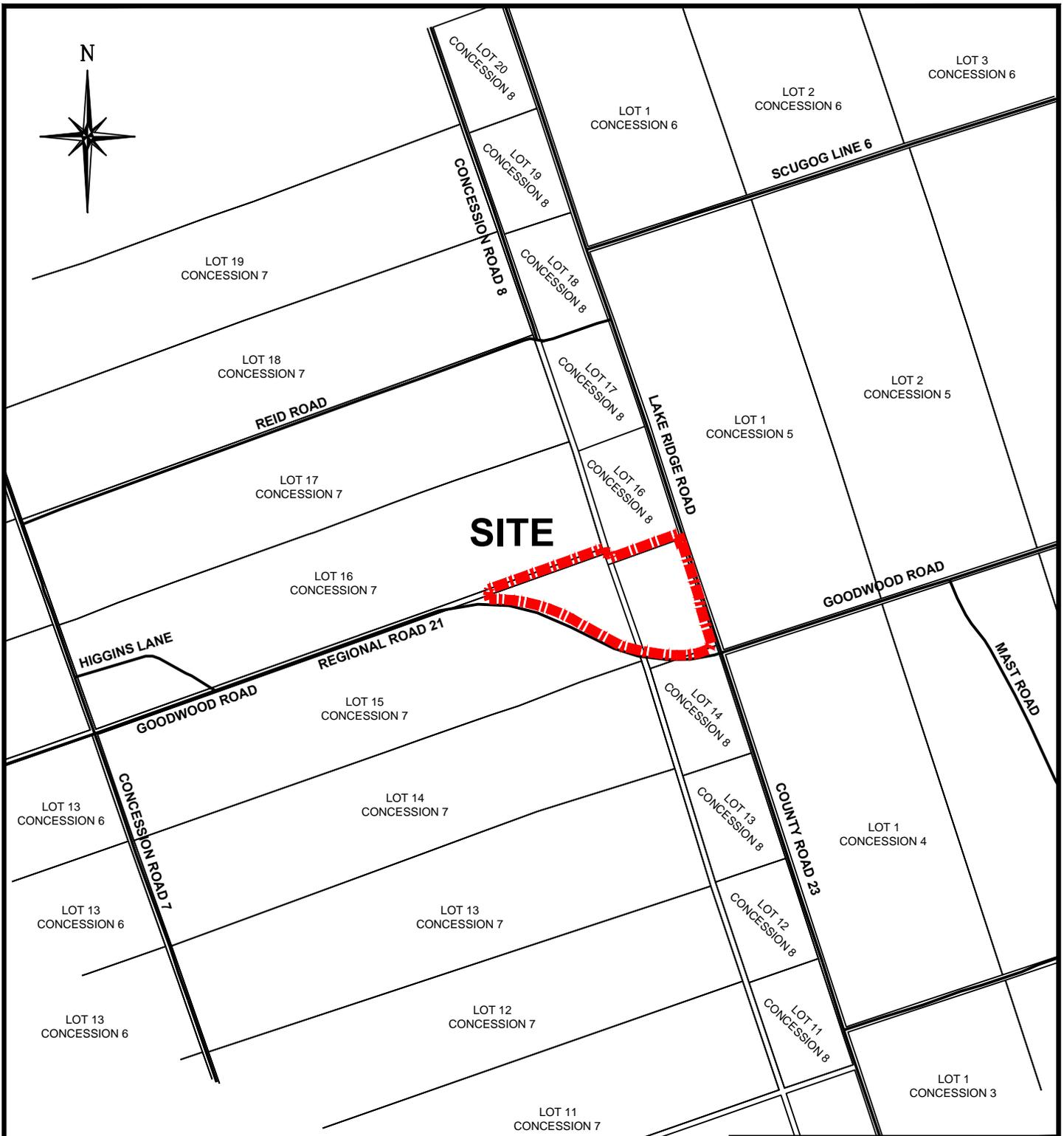
- significant wetlands in the Canadian Shield north of Ecoregions 5E, 6E and 7E;
- significant woodlands in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Mary's River);
- significant valleylands in Ecoregions 6E and 7E (excluding islands in Lake Huron and the St. Mary's River);
- significant wildlife habitat;
- significant areas of natural and scientific interest; and
- coastal wetland in Ecoregions 5E, 6E and 7E that are not subject to policy 2.1.4 (b).

unless it can be demonstrated that there will be no negative impacts on those features or their functions.

Development and site alteration shall not be permitted in fish habitat except in accordance with provincial and federal requirements.

Development and site alteration shall not be permitted in habitat of endangered species and threatened species, except in accordance with provincial and federal requirements.

Development and site alteration shall not be permitted on adjacent lands to the natural heritage features and areas identified in policies 2.1.4, 2.1.5, and 2.1.6 unless the ecological function of the adjacent lands has been evaluated and it has been demonstrated that there will be no negative impacts on the natural features or on their ecological functions.



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Vicdom Sand & Gravel Utica Pit Natural Environment Report	
Figure 1 Location	
Scale 1:20,000	
P/N 12-2630	January 2014
 <b>Skelton Brumwell</b> & ASSOCIATES INC.	
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Source: Land Information Ontario



### Legend

-  Licence Boundary
-  120m Adjacent Lands

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Utica Pit  
Natural Environment Report

Figure 2  
Study Area

Scale 1:20,000

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### **3.2 Oak Ridges Moraine Conservation Plan**

The site is located in the Oak Ridges Moraine and subject to the *Oak Ridges Moraine Conservation Act* (2001), and the policies of the *Oak Ridges Moraine Conservation Plan* (2002) (ORMCP). The site and the adjacent lands within 120 metres are designated Countryside by the ORMCP.

Schedule I of the Town of Uxbridge Official Plan, as shown on Figure 3, identifies Significant Woodlands on adjacent lands south of the subject property (south of Goodwood Road) and Minimum Vegetation Protection Zone of 30 metres. A related Minimum Area of Influence (MAI) of 120 metres (Table 2.1- Township of Uxbridge Official Plan) extends onto the southeastern part of the subject property.

An application for development located within the MAI in the ORMCP area requires a Natural Heritage Evaluation that demonstrates that the development will not adversely affect the features or the related ecological functions. The purpose of the MAI is to define an area around a key natural heritage feature in which development has the potential to impact that key natural heritage feature.

### **3.3 Greenbelt Protection Plan**

The Site is subject to the *Greenbelt Act* and the “Greenbelt Protection Plan” which came into effect in 2005. Section 2.1 of the Greenbelt Protection Plan states that for lands within the Oak Ridges Moraine Area:

*“The requirements of the ORMCP (Ontario Regulation 140/02), made under the Oak Ridges Moraine Conservation Act, 2001, continue to apply and the Protected Countryside policies do not apply with the exception of section 3.3.”*

Therefore, there is no requirement to address policies of the Greenbelt Plan as they relate to natural heritage. The Oak Ridges Moraine Conservation Plan holds precedence.



### Legend

- |   |  |
|---|--|
|  Licence Boundary    |  Significant Woodlands              |
|  Limit of Extraction |  Minimum Vegetation Protection Zone |
|  120m Offset         |  Minimum Area of Influence          |

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Utica Pit  
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Figure 3  
Official Plan Schedule I

Scale 1:20,000

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### **3.4 Lake Simcoe Protection Plan**

Part of the subject property is located in the Lake Simcoe watershed and is subject to the policies of the Lake Simcoe Protection Plan (LSPP).

Chapter 6- Shorelines and Natural Heritage outlines policies relative to the protection of key natural heritage and hydrologic features in the LSPP area.

There are no identified key natural heritage or hydrologic features in the portions of the property in the LSPP jurisdiction or within 120 metres. Therefore, there is no requirement for a Natural Heritage Evaluation under the LSPP for development of the subject property.

### **3.5 Region of Durham Official Plan**

The Official Plan designates the Site “Oak Ridges Moraine”. The lands are further identified as “Countryside Area” in conformity with the ORMCP. The policies related to these designations mirror the policies of the ORMCP.

Schedule B (Map B1b) to the Regional Official Plan, illustrates Greenbelt Natural Heritage System, Key Natural Heritage and Hydrologic Features. No features are identified on the subject property. Key Natural Heritage Features are found on the south side of Rural Road 21 which lie within 120 metres of the subject property, similar to what is shown in Figure 3 of the Town of Uxbridge Official Plan.

Section 2.3.42 requires that an Environmental Impact Study be completed when any proposal for development or site alteration is in proximity to key natural heritage features.

Section 10B2.7 of the Official Plan outlines the requirement for an environmental impact study which shall include a natural heritage evaluation as detailed in the ORMCP.

#### **3.5.1 Township of Uxbridge Official Plan**

Schedule H of the Township of Uxbridge Official Plan illustrates the subject property as being in the ORMCP Area. Section 1.9 of the Official Plan provides policies for areas in the ORMCP Township.

Schedule I of the Town of Uxbridge Official Plan identifies Significant Woodlands on adjacent lands south of the subject property (south of Goodwood Road) and a Minimum Area of Influence, being 120 metres (Table 2.1- Township of Uxbridge Official Plan), extending partly into the subject property, as shown on Figure 3.

Section 1.9.5 (iii) stipulates that “An application for development or site alteration in the minimum area of influence shall be accompanied by a natural heritage evaluation in accordance

with the provisions of Part III, Section 23 of the Moraine Plan. Development or site alteration may also be prohibited in the minimum area of influence based on the results of the natural heritage evaluation which may establish a greater minimum vegetation protection zone.”

Therefore, conformity to the ORMCP will establish conformity to the Official Plan policies with respect to requirements for a natural heritage evaluation/environmental impact study.

## **4.0 METHODS**

Preparation of the natural environment report/natural heritage evaluation involves review of background documentation, field investigations, consultation with government officials and analysis.

The following sections provide a summary of methodology for the collection of information used to determine the presence of key natural heritage features/hydrologic features on the subject property and within the minimum area of influence/adjacent lands.

### **4.1 Background Documentation**

Background research was completed to identify previously identified key natural heritage features/hydrologic features and ecological functions on/or adjacent to the proposed license area. The documents/sources listed below along with consultation with provincial agencies provided additional resources for this study:

- Ministry of Natural Resources (MNR) Natural Heritage Information Centre (NHIC);
- MNR Species at Risk geographic query tool;
- Township of Uxbridge Official Plan; and
- Region of Durham Official Plan.

### **4.2 Field Investigations**

Field investigations were scoped with the Lake Simcoe Region Conservation Authority (LSRCA) in correspondence dated April 10, 2013. Due to the current use of the site for agriculture and lack of any native habitat, field investigations were scoped to the following:

- A mid-summer search for species at risk plant species (i.e. butternut) along hedgerows, near the residence and in the right-of way.
- Determination of the need for a suitable buffer relative to Significant Woodlands to the south and address policies of the Official Plan/Oak Ridges Moraine Conservation Plan/Lake Simcoe Protection Plan as they relate to the project.

Site investigations were completed on April 18 and July 17, 2012, with a follow up visit on August 16, 2013 to inspect hedgerows and the right-of-way for any rare plant species.

Adjacent lands were investigated using roadside observations (i.e. visual observations from roadways, property lines, air photos, etc.).

Vegetation communities were identified using the Ecological Land Classification (ELC) for Southern Ontario, First Approximation (Lee et al., 1998). Polygons were delineated using aerial photography, field sampled and classified into the most appropriate vegetation type. The polygons were identified based on vegetative cover, soils and landscape features.

No watercourses were identified during background research. During field investigations, observations were made for un-mapped watercourses, wetlands, groundwater discharge areas, and areas of vernal pooling.

## **5.0 EXISTING CONDITIONS**

### **5.1 Background Documentation**

#### **5.1.1 Ministry of Natural Resources/ Natural Heritage Information Centre**

A search of the Natural Heritage Information Centre (NHIC) Biodiversity Explorer in 2012 (program no longer available) identified no rare species or Areas of Natural or Scientific Interest (ANSI) in the subject property or intersecting 1km<sup>2</sup> occurrence squares.

A search for known species at risk was completed using the MNR geographic tool for the “Durham Region”. Based on habitat attributes on site and on adjacent lands, there was no potential for species at risk identified.

#### **5.1.2 Township of Uxbridge Official Plan**

Schedule I of the Town of Uxbridge Official Plan identifies Significant Woodlands and associated Minimum Vegetation Protection Zone (MVPZ) on adjacent lands south of the subject property, as shown on Figure 3.

The Minimum Area of Influence (MAI) of 120 metres (Table 2.1- Township of Uxbridge Official Plan), extends onto part of the southwest section of the subject property.

#### **5.1.3 Site Conditions**

Vegetation communities on site are entirely agricultural cropland as shown on Figure 4 and Photo Page 1. A residence and outbuildings (shed) are present in the east part of the property with access from Lakeridge Road.

Hedgerows and the right-of-way were cleared of vegetation in the summer of 2013. No rare species were observed during the 2012 site visits.



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Figure 4  
 Site Conditions

Scale 1:20,000

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**Legend**

-  Licence Boundary
-  120m Adjacent Lands
-  Significant Woodlands



**Subject lands looking southwest from right-of-way.**



**Southwest corner of subject lands looking east. Significant Woodlands across Goodwood Road visible in background.**



**Cleared right-of-way (July 2013) looking east.**



**Existing residence fronting on Lakeridge Road looking north.**



**Subject lands looking east from adjacent property to the west.**

SOURCE: Site photos taken by Skelton Brumwell in July and August 2013.

**Vicdom Utica Pit  
Natural Environment Report  
Town of Uxbridge**

Photo Page 1

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Remaining trees in the area of the residence included a mix of red oak (*Quercus rubra*), hard maple (*Acer saccharum*), white spruce (*Picea glauca*) eastern white cedar (*Thuja occidentalis*), and scots pine (*Pinus sylvestris*).

No native vegetation community elements are present within these anthropogenic disturbed areas. They have no provincial ranking and would not be considered significant.

No watercourses or additional un-identified wetlands are found within the within the study area.

## **6.0 ANALYSIS OF NATURAL HERITAGE FEATURES**

The following discusses whether any of the seven natural heritage features in the PPS or key natural heritage features identified in the ORMCP are found on or adjacent to the proposed licensed area. The identification of these features is the result of background research, fieldwork and analysis.

### **6.1 Provincially Significant Wetlands/Other Wetlands**

No wetlands were identified in Official Plan schedules, field investigations or air photography on the subject property or within 120 metres.

As no wetlands have been identified in the study area, they will not be addressed in the Level II report.

### **6.2 Significant Habitat of Endangered or Threatened Species**

Field investigations and an analysis of available habitat on site and within 120 metres found that the habitat for species at risk is not present on or adjacent to the proposed license area.

As Significant Habitat of Endangered or Threatened Species is not found in the study area, it will not be addressed in the Level II report.

### **6.3 Significant Woodlands**

Significant Woodlands have been identified in the Township of Uxbridge Official Plan, occurring on adjacent lands south of the subject property. The Minimum Area of Influence of 120 metres for this feature extends into the subject lands as shown on Figure 3.

Therefore, as this feature is within 120 metres of the subject property, Significant Woodlands will be discussed in the Level II report.

### **6.4 Significant Valleylands**

No significant valley lands were identified in Official Plan schedules, field investigations or air photography on the subject property or within 120 metres.

As no Significant Valleylands have been identified in the study area, they will not be addressed in the Level II report.

### **6.5 Significant Wildlife Habitat**

The MNR has produced a Draft Criteria for Candidate Significant Wildlife Habitat for Ecoregion 6E. Based on background information collected and field investigations, an analysis of the criteria was completed to identify any Candidate Significant Wildlife Habitat.

Based on the analysis of habitat on site and the criteria, there is no candidate significant wildlife habitat features on the subject property. Therefore, Candidate Significant Wildlife Habitat will not be discussed in the Level II report.

### **6.6 Significant Areas of Natural and Scientific Interest (ANSI)**

No significant valley lands were identified in Official Plan schedules, field investigations or air photography on the subject property or within 120 metres.

As no Significant Valleylands have been identified in the study area, they will not be addressed in the Level II report.

### **6.7 Fish Habitat**

No water bodies were identified in Official Plan schedules, field investigations or air photography on the subject property or within 120 metres.

As no water bodies have been identified in the study area which would support fish habitat, it will not be addressed in the Level II report.

### **6.8 Summary of Natural Heritage Features**

In summary, one natural heritage feature, Significant Woodland, was identified on adjacent lands from the proposed licensed area.

Part of the subject property lies within the Minimum Area of Influence (120 metres) as defined by the ORMCP and Township Official Plan.

Due to the presence of this key natural heritage feature adjacent to the proposed license area, a Level II report is required. The Level II report will assess potential impacts and recommend mitigation measures if needed to ensure no negative impacts to Significant Woodland and its ecological functions.

## ***NATURAL ENVIRONMENT REPORT LEVEL II***

### **7.0 PROPOSED DEVELOPMENT**

The proposed development for the subject property is an application under the Aggregate Resources Act for a “Class A” Pit Above Water, as shown on the Development Concept Plan (Figure 5). The licensed area will be 19.2 ha (47.4 acres) and the extraction area 15.4 ha (38 acres). The area to be extracted will be located entirely within existing agricultural lands and former right-of-way. The existing residence and outbuildings are to be removed.

The entrance, scales and scale house on the adjacent licenced pit and entrance from Goodwood Road will be utilized for the new licence. Aggregate materials extracted will be hauled to the existing pit to the north for processing and shipping.

The site will be rehabilitated with side slopes to steep slopes of no steeper than 3 metres horizontal to 1 metre vertical as required by the ARA. The pit floor will be gently sloping to contain all drainage within the site. It is intended that the final end use of the Site will be for private open space and/or agriculture.

### **8.0 IMPACT ASSESSMENT AND MITIGATION MEASURES**

One key natural heritage feature has been identified through the findings of the Level I report:

- Significant Woodlands

This Level II report assesses potential negative impacts as a result of the extraction within the proposed license area and provides mitigation measures if deemed necessary to ensure no negative impacts to these identified features and their ecological functions.

#### **8.1 Significant Woodlands**

Significant Woodlands have been identified by the Township on adjacent lands south of the proposed license area. As shown on Figure 3, the Minimum Area of Influence (MAI) of 120 metres for this key natural heritage feature extends partly into the southeast section of the proposed licensed area.

A 30-metre Minimum Vegetation Protection Zone (MVPZ) has been applied to the boundary of the Significant Woodland by the Township as required by the ORCMP.

The ORMCP stipulates that a Natural Heritage Evaluation determine whether dimensions of the MVPZ are sufficient for protection of that key natural heritage feature and determine if development in the MAI will have an impact on the feature or its ecological functions.



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 Utica Pit  
 Natural Environment Report

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Figure 5  
 Development Concept Plan

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Scale 1:20,000

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**Legend**

- - - - - Licence Boundary
- - - - - Limit of Extraction
- - - - - 120m Adjacent Lands
- - - - - Minimum Area of Influence
- / / / / / Significant Woodlands

The proposed development of a pit will occur solely within lands used for agriculture and residential. As discussed in this report, there is no native habitat on the subject property. Thus, the subject property provides no contributing features or ecological functions (i.e. corridors) to Significant Woodlands on the adjacent lands.

The MVPZ falls within Goodwood Road (Regional Road 21) and does not extend to the subject property. The Significant Woodlands and proposed licensed area are separated by this major roadway which is approximately 39 metres (120 feet) wide. No further increase in the size of the MVPZ on the subject property side of Goodwood Road would provide any further protection for the Significant Woodlands. Development of the site will not have any impact on this feature.

## 9.0 CONCLUSIONS

Skelton, Brumwell & Associates Inc. was retained by Vicdom Sand & Gravel to prepare a Natural Environment Report (NER) in support of their application under the Aggregate Resources Act (ARA) for a Category 3-Class A Pit Above Water.

The study determined that one natural heritage feature was identified within the project study area, being Significant Woodlands.

We conclude that as there will be no direct disturbance to this feature. Given that no contributing features or ecological functions lie within the subject lands, and Goodwood Road separates the site and Significant Woodland to the south, we anticipate that the existing 30-metre MVPZ is sufficient for protection of the Significant Woodlands and no impacts are anticipated to this key natural heritage feature or its ecological functions as a result of the proposed development.

All of which is respectfully submitted,  
SKELTON, BRUMWELL & ASSOCIATES INC.  
per:



Kyle Fleming, BSc (Wildlife)  
Ecologist

## REFERENCES

Government of Ontario. 2014. Provincial Policy Statement. Queen's Printer for Ontario.

Natural Heritage Information Centre (NHIC) Database. 2005. Provincial Status of Plants, Wildlife and Vegetation Communities Database. Ministry of Natural Resources, Peterborough.

Ontario Ministry of Municipal Affairs and Housing. 2002. Oak Ridges Moraine Conservation Plan. Queen's Printer for Ontario.

Ontario Ministry of Natural Resources. Draft February 2012. Draft Eco-Region Criteria Schedule for Eco-Region6E.(<http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTE1ODc5&statusId=MTczNDgy&language=en>).

Ontario Ministry of Natural Resources. Last Modified June 10- 2013. Species at Risk in Durham Region.[http://www.mnr.gov.on.ca/en/Business/Species/2ColumnSubPage/MNR\\_SAR\\_WHTS\\_RS\\_K\\_DRHM\\_EN.html](http://www.mnr.gov.on.ca/en/Business/Species/2ColumnSubPage/MNR_SAR_WHTS_RS_K_DRHM_EN.html)

Regional Municipality of Durham. Official Plan of the Regional Municipality of Durham. June 5, 2008.

Township of Uxbridge. Official Plan Township of Uxbridge Office Consolidation with Proposed Amendments May, 2010. Includes ORMCP Conformity Amendment No. 33 Approved by March 24, 2010.

APPENDIX A

Curriculum Vitae- Kyle Fleming

**Kyle Fleming, B.Sc. (Wildlife), Dip. Fish and Wildlife Tech.  
Ecologist**

**EDUCATION**

***Bachelor of Science in Wildlife Biology (2002)***

University of Northern British Columbia

***Diploma in Fish and Wildlife Technology (1998)***

Sir Sandford Fleming College

**PROFESSIONAL BACKGROUND**

**Skelton Brumwell & Associates Inc. (Barrie, ON)**

*Ecologist*- May 2004-present

Kyle has over 10 years experience conducting field inventories of flora and fauna in wetland and terrestrial environments and identifying natural heritage features and functions. He is a Qualified Wetland Evaluator by the MNR, is trained and experienced in the use of Ecological Land Classification (ELC), and has been qualified as an expert at the Ontario Municipal Board.

Kyle has completed studies throughout Central and Southern Ontario, and the United States; including projects on the Oak Ridges Moraine, Niagara Escarpment, for Species at Risk and within Provincially Significant Wetlands. His work is readily accepted by municipalities and conservation authorities, and he is very familiar with their requirements and procedures. He is also well versed in municipal, provincial and federal policies and legislation.

**Hamer Environmental L.P. (Mt. Vernon, WA, USA)**

*Project Supervisor/Field Biologist*- April-August 2003

Responsible for supervising and managing a threatened seabird monitoring project on state lands.

**Aqua Terre Solutions Inc. (Toronto, ON)**

*Environmental Technician*- November-January 2002-2003.

**Hamer Environmental L.P. (Mt. Vernon, WA, USA)**

*Field Biologist*- April-August 2002.

Conducted threatened seabird surveys on state lands to determine presence/absence relative to forestry activities.

**University of Washington (Seattle, WA., USA)**

*Field Technician*- June-August 2001.

Research project on nest predation of threatened seabirds and impacts of forestry practices on nesting sites.

**City of Barrie, Environmental Services. (Barrie, ON)**

*Junior Environmental Officer*- May-August 2000.

Water sampling, investigations of pollution concerns and public consultation.

**Kyle Fleming, B.Sc. (Wildlife), Dip. Fish and Wildlife Tech.  
Ecologist**

**CERTIFICATIONS**

Ontario Wetland Evaluation Training Course, 2004.

OPPI- The Planner at the Ontario Municipal Board Seminar, 2006

Ecological Land Classification for Southern Ontario Training Course, 2005.

Ministry of Natural Resources (MNR) Butternut Assessment Course, 2009.

**PROJECT EXPERIENCE (AGGREGATES)**

***Miller Paving Ltd.- Natural Environment Report (NER) Level I & II (Township of Minden Hills)***

NER was prepared in accordance with the Aggregate Resources Act (ARA) for a wayside quarry adjacent to an existing licensed pit. Natural heritage features included Provincially Significant Wetlands (PSW), Significant Wildlife Habitat and Significant Woodlands. Mitigation measures were recommended to avoid impacts to these features and their related ecological functions.

***Robinson-Kovacs Pit- Natural Heritage Evaluation (Oak Ridges Moraine)***

A natural heritage evaluation was prepared in accordance with the Oak Ridges Moraine Conservation Plan for an amendment to the Site Plan of an existing gravel pit.

***Miller Paving Ltd.- Natural Environment Report Level I & II (Township of McNab-Braeside)***

NER completed in support of major site plan amendment for expansion of quarry under ARA. Significant Wildlife Habitat was identified which included provincially rare plant species, amphibian woodland ponds, area sensitive bird habitat and deer wintering habitat.

***Earth Resources Ltd.- Natural Environment Report Level I & II (Township of Galway-Harvey- Cavendish)***

NER completed in support of new aggregate pit within Crown Land permit. Significant Wildlife Habitat (Great Blue Heron nesting site) and significant wetlands were identified and mitigation measures recommended for their protection.

***Universal Sand & Gravel- Natural Environment Report Level I & II (Township of Garafraxa)***

Natural Environment Report completed in support of a major site plan amendment for a small woodlot which had remain undisturbed. Field investigations were focused on this woodlot and identified butternut trees. The butternut trees were assessed using standard protocols.

**Kyle Fleming, B.Sc. (Wildlife), Dip. Fish and Wildlife Tech.  
Ecologist**

**PROJECT EXPERIENCE (AGGREGATES) cont'd.**

***Hillway Equipment Ltd- Butternut Assessment (Township of Oro Medonte)***

An assessment was completed to Ministry of Natural Resource' standards for endangered butternut trees found within an existing pit.

***Miller Paving Ltd.- Species at Risk Assessment (All of Ontario)***

A species at risk assessment was completed for 64 aggregate properties in Ontario to determine potential for habitat of endangered or threatened species listed in the *Endangered Species Act (2007)*. An exemption agreement with the MNR was completed each site identified as having potential habitat. These agreements included conducting site surveys for specific species, implementing site mitigation measures, timing of certain operations and training of site staff.

***Earth Resources Ltd.- Natural Environment Report Level I & II (Township of Galway-Harvey- Cavendish)***

A Natural Environment Report was completed for a proposed limestone quarry on 246 acres. Consultation with the Ministry of Natural Resources, field investigations and analysis identified the potential for habitat of a threatened species and significant wildlife habitat. Mitigation measures were recommended to ensure no negative impacts which included unique progressive and final rehabilitation requirements.